PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

STATEMENT OF SPECIAL INSPECTIONS
(Building/Other Structures other than Retaining Walls)
Version 2020_0623

Building Permit Number: BLD20 - _____ **VUSBC Edition:** _____

Project Name: _____ **Group:** _____ **Construction Type:** _____

Project Address: _____

Building Owner's Name: _____

Owner's Address: _____

Architect of Record: _____
Name & License *Company*

Structural Engineer of Record: _____
Name & License *Company*

Geotechnical Engineer of Record: _____
Name & License *Company*

Mechanical Engineer of Record: _____
(Smoke Control Systems Only) *Name & License* *Company*

Special Inspections Engineer of Record: _____
Name & License *Company*

Inspection and testing Agency: _____
Company *Address*

General Contractor: _____
Name & License *Company*

Others: _____
Responsible Party *Name & License* *Company*

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Virginia Uniform Statewide Building Code. The Special Inspections Schedule is an integral part of the Statement of Special Inspections.

The Special Inspections Engineer of Record shall keep records of specified special inspections and testing and shall furnish copies of inspection and testing reports to the Prince William County Special Inspections Section (PWCSIS) and to the appropriate Registered Design Professional(s) of Record (RDPR), (e.g. the SER for building structural elements, MER for smoke control system, AR for EIFS and SFRM). Discrepancies from the approved plans and specifications and code violations observed during the conduct of special inspections services shall be brought to the immediate attention of the Contractor for correction, to the attention of PWCSIS, and to the RDPR. A Final Report of Special Inspections, documenting completion of specified special inspections, correction of any discrepancies and observed code violations shall be submitted to and approved by PWCSIS prior to the building concealment inspection by the Building Construction Inspections Branch.

Prepared by: _____
Signature & Date ☐ *By checking this box, I agree to electronically signing this form.*

Reviewed and Approved by:
Structural Engineer of Record:
Signature & Date ☐ *By checking this box, I agree to electronically signing this form.*

Architect of Record (EIFS, SFRM, Mastic & Intumescent applications Only)
Signature & Date ☐ *By checking this box, I agree to electronically signing this form.*

Mechanical Engineer of Record (Smoke Control Systems Only)
Signature & Date ☐ *By checking this box, I agree to electronically signing this form.*

Building Owner's Authorization:
Signature & Date ☐ *By checking this box, I agree to electronically signing this form.*

Building Official's Acceptance:

_____ _____
Building Plan Reviewer ***Special Inspections Reviewer***

SPECIAL INSPECTIONS SCHEDULE

Building Permit Number: BLD20____ - _____

REQUIRED VERIFICATION AND INSPECTION						Inspections By	Start Date of Inspection	Completion Date of Inspection
Task, Verification and Inspection		Frequency Of Inspections		Reference Criteria				
		Continuous	Periodic	Ref. Std.	IBC Ref.			
A. ☐	**SOILS**				1705.6	**SIER**		
1. ☐	Controlled fill placed under Site Permit (Submit Building Pad Certification in accordance with Building Development Division's Policy: Building Pad Certification)	—	—					
2. ☐	Controlled fill placed under this Building Permit	X	—					
3. ☐	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	—	X					
4. ☐	Verify excavations are extended to proper depth and have reached proper material.	—	X					
5. ☐	Perform classification and testing of compacted fill materials.	—	X					
6. ☐	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	—					
7. ☐	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	—	X					
8. ☐	Verify installation of Drain tile (Gravity/ Mechanical)	—	X					
B. ☐	**CONCRETE CONSTRUCTION**				1705.3	**SIER**		
1. ☐	Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	—			
2. ☐	Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b of this schedule of inspections.			AWS D1.4 ACI 318: 26.6.4	—			
2a. ☐	Verify weldability of reinforcing bars other than ASTM A706;	—	X					
2b. ☐	Inspect single-pass fillet welds, maximum 5/16″; and	—	X					
2c. ☐	Inspect all other welds.	X	—					
3. ☐	Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—			
4. ☐	Inspect anchors post-installed in hardened concrete members. [b]			ACI 318: 17.8.2.4 ACI 318: 17.8.2	—			
4a. ☐	Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—					
4b. ☐	Mechanical anchors and adhesive anchors not defined in 4.a.	—	X					

REQUIRED VERIFICATION AND INSPECTION						Inspections By	Start Date of Inspection	Completion Date of Inspection
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B. ☐	**CONCRETE CONSTRUCTION Continued**				1705.3	**SIER**		
5. ☐	Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2			
6. ☐	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	—			
7. ☐	Inspect concrete and shotcrete placement for proper application techniques.	X		ACI 318: 26.5	—			
8. ☐	Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5				
9. ☐	Inspect prestressed concrete for:			ACI 318: 26.10	—			
9a. ☐	Application of prestressing forces; and	X	—					
9b. ☐	Grouting of bonded prestressing tendons.	X	—					
10. ☐	Inspect erection of precast concrete members.	—	X	ACI 318: 26.9	—			
11. ☐	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E or F, inspect such connections and reinforcement in the field for:			ACI 318: 26.13.1.3	—			
11a. ☐	Installation of the embedded parts	X	—	ACI 550.5				
11b. ☐	Completion of the continuity of reinforcement across joints.	X	—					
11c. ☐	Completion of connections in the field.	X	—					
12. ☐	Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	—	X	ACI 318: 26.13.1.3	—			
13. ☐	Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—			
14. ☐	Inspect formwork for shape, location and dimensions of the concrete member being formed, shoring and reshoring.	—	X	ACI 318: 26.11.1.2(b)	—			

For SI: 1 inch = 25.4 mm.

1. a. Where applicable, see Section 1705.13.
2. b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

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		Continuous	Periodic	IBC Ref	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6			
C. ☐	**MASONRY CONSTRUCTION - LEVEL 1**			1705.4			**SIER**		
1. ☐	Verify compliance with the approved submittals	—	X	—	—	Art. 1.5			
2. ☐	Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by the code.	—	X	—	—	Art. 1.4B			
3. ☐	Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	—	—	—	Art. 1.5B.1.b.3			
4. ☐	***As masonry construction begins, verify that the following are in compliance:***								
4a. ☐	Proportions of site-prepared mortar.	—	X	—	—	Art. 2.6A			
4b. ☐	Location of reinforcement, connectors, and ☐ prestressing tendons and anchorages.	—	X	—	—	Art. 3.4, 3.6A			
4c. ☐	Prestressing technique.	—	X	—	—	Art. 3.6B			
4d. ☐	Grade and size of prestressing tendons and anchorages.	—	X	—	—	Art. 2.4B, 2.4H			
5. ☐	***Verify during construction:***								
5a. ☐	Size and location of structural elements.	—	X	—	—	Art. 3.3F			
5b. ☐	Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	—	X	—	Sec. 1.16.4.3, 1.17.1	—			
5c. ☐	Welding of reinforcing bars.	X	—	—	Sec. 2.1.7.7.2, 3.3.3.4(c), 8.3.3	—			
5d. ☐	Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	—	X	2104.4	—	Art. 1.8C, 1.8D			
5e. ☐	Application and measurement of prestressing force.	X	—	—	—	Art. 3.6B			
5f. ☐	Placement of grout, and ☐ Prestressing grout for bonded tendons is in compliance.	X	—	—	—	Art. 3.5, Art. 3.6C			

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Task, Verification and Inspection		Frequency Of Inspection		Reference Criteria					
		Continuous	Periodic	IBC Ref.	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6			
C. ☐	**MASONRY CONSTRUCTION - LEVEL 1 Continued.**			1705.4			**SIER**		
6. ☐	***Prior to grouting, verify the following are in compliance:***								
6a. ☐	Grout space is clean.	—	X	—	—	Art. 3.2D, 3.2F			
6b. ☐	Grade, Type and size of reinforcement and anchor bolts, and, ☐ prestressing tendons and anchorages.	—	X	—	Sec. 1.16	Art. 2.4, 3.4			
6c. ☐	Placement of reinforcement and connectors, and ☐ prestressing tendons and anchorages.	—	X	—	Sec. 1.16	Art. 3.4E, 3.4, 3.6A			
6d. ☐	Proportions of site-prepared grout and ☐ Prestressing grout for bonded tendons.	—	X	—	—	Art. 2.6B			
6e. ☐	Construction of mortar joints.	—	X	—	—	Art. 3.3B			
7. ☐	Observe preparation of grout specimens, mortar specimens and/or prisms.	—	X	Sec. 2105.2.2, 2105.3	—	Art. 1.4B.2a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4			
8. ☐									
D. ☐	**MASONRY CONSTRUCTION - LEVEL 2**			1705.4			**SIER**		
1. ☐	Verify compliance with the approved submittals.	—	X	—	—	Art. 1.5			
2. ☐	Verification of f'_m and f'_{AAC} prior to construction and for every 5,000 square feet during construction.	—	X	—	—	Art. 1.4B			
3. ☐	Verification of proportions of materials in premixed or pre-blended mortar and grout as delivered to the site.	—	X	—	—	Art. 1.5B			
4. ☐	Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	—	—	—	Art. 1.5B.1.b.3			

REQUIRED VERIFICATION AND INSPECTION							Inspections By	Start Date of Inspection	Completion Date of Inspection
Task, Verification and Inspection		Frequency Of Inspection		Reference Criteria					
Verification And Inspection		Continuous	Periodic	IBC Section	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6			
D. ☐	**MASONRY CONSTRUCTION - LEVEL 2 – Continued.**			1705.4			**SIER**		
5. ☐	***Verify that the following are in compliance:***								
5a. ☐	Proportions of site-prepared mortar, grout and ☐ prestressing grout for bonded tendons.	—	X	—	—	Art. 2.1, 2.6A-C, 2.4G.1.b			
5b. ☐	Grade, Type and size of reinforcement and anchor bolts, and, ☐ prestressing tendons and anchorages.	—	X	—	Sec. 1.16	Art. 2.4, 3.4			
5c. ☐	Placement of masonry units and construction of mortar joints.	—	X	—	—	Art. 3.3B			
5d. ☐	Placement of reinforcement, connectors and, ☐ prestressing tendons and anchorages.	—	X	—	Sec. 1.16	Art. 3.2E,3.4, 3.6A			
5e. ☐	Grout space prior to grouting.	X	—	—	—	Art. 3.2D, 3.2F			
5f. ☐	Placement of grout and ☐ prestressing grout for bonded tendons.	X	—	—	—	Art. 3.5, Art. 3.6C			
5g. ☐	Size and location of structural elements.	—	X	—	—	Art. 3.3F			
5h. ☐	Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X	—	—	Sec., 1.16.4.3, 1.17.1	—			
5i. ☐	Specified size, grade and type of reinforcement, anchor bolts and ☐ Prestressing tendons and anchorages.	—	X	—	Sec. 1.15	Art. 2.4, 3.4			
5j. ☐	Welding of reinforcing bars.	X	—	—	Sec. 2.17.7.2, 3.3.3.4 (b), (c).	—			
5k. ☐	Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	—	X		—	Art. 1.8C, 1.8D			
5l. ☐	Application and measurement of prestressing force.	X	—	—	—	Art. 3.6B			
6. ☐	***Observe preparation of grout specimens, and/or prism.***	X	—		—	Art. 1.4B.2a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4			

SPECIAL INSPECTIONS SCHEDULE **Building Permit Number: BLD20_____- _____**

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		Continuous	Periodic	Ref. Std.	IBC Ref.			
E. ☐	**STRUCTURAL STEEL**				1705.2.1	**SIER**		
1. ☐	**Structural Steel** ***Structural steel inspections shall be in accordance with the quality assurance inspection requirements of AISC 360***			AISC 360, Chapter N				
2a. ☐	Verify that fabricator AISC Certified				1704.2			
2b. ☐	Verify that fabricator maintains detailed fabrication and quality control procedures				1704.2			
3. ☐	Fabricator is certified with **International Accreditation Service** for Pre-engineered metal Buildings.				1704.2			
4. ☐	***Material verification of cold-formed steel deck:***				1705.2.2			
4a. ☐	Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X	Applicable ASTM material standards				
4b. ☐	Manufacturer's certified test reports.	—	X					
5. ☐	***Inspection of welding:***				1705			
5a. ☐	*Cold-formed steel deck:*				1705.2.2.			
5b. ☐	Floor and roof deck welds.	—	X	AWS D1.3	1705.2.2.			
6. ☐	*Reinforcing steel:*				1705.2.2			
6a. ☐	Verification of weldability of reinforcing steel other than ASTM A 706.	—	X					
6b ☐	Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	—	AWS D1.4 ACI 318: Section 3.5.2	—			
6c. ☐	Shear reinforcement.	X	—					
6d. ☐	Other reinforcing steel.	—	X					
7. ☐	***Cold-formed steel trusses spanning 60ft or greater***				1705.2.4	**SIER**		
7a. ☐	Verify that temporary installation restraint/bracing is installed in accordance with the approved truss submittal package.							
7b. ☐	Verify that permanent installation of individual truss member restraint/bracing is installed in accordance with the approved truss submittal package.							

SPECIAL INSPECTIONS SCHEDULE **Building Permit Number: BLD20_____- _____**

REQUIRED VERIFICATION AND INSPECTION						Inspections By	Start Date of Inspection	Completion Date of Inspection
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F. ☐	**DRIVEN DEEP FOUNDATION ELEMENTS**				1705.7	**SIER**		
1. ☐	Verify element materials, sizes and lengths comply with the requirements.	X	—					
2. ☐	Determine capacities of test elements and conduct additional load tests, as required.	X	—					
3. ☐	Observe driving operations and maintain complete and accurate records for each element.	X	—					
4. ☐	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	X	—					
5. ☐	For steel elements, perform additional inspections in accordance with IBC Section on steel construction.	—	—		1705.2			
6. ☐	For concrete elements and concrete-filled elements, perform additional inspections in accordance with IBC section on concrete construction.	—	—		1705.3			
7. ☐	For specialty elements, perform additional inspections as determined by the registered design professional of record.	—	—					
G. ☐	**CAST-IN-PLACE DEEP FOUNDATION ELEMENTS**				1705.8	**SIER**		
1. ☐	Observe drilling operations and maintain complete and accurate records for each element. **Specify element** :_____	X	—					
2. ☐	Verify placement locations and plumbness; confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.	X	—					
3. ☐	For concrete elements, perform additional inspections in accordance with IBC section on concrete construction.	—	—		1705.3			
4. ☐	For steel elements, perform additional inspections in accordance with IBC section on steel construction.				1705.2			

SPECIAL INSPECTIONS SCHEDULE

Building Permit Number: BLD20____- _____

REQUIRED VERIFICATION AND INSPECTION						Inspections By	Start Date of Inspection	Completion Date of Inspection
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		Continuous	Periodic	Ref. Std.	IBC Ref			
H. ☐	**HELICAL PILE FOUNDATIONS (Helical Piers)**	X			1705.9	**SIER**		
I. ☐	**VERTICAL MASONRY FOUNDATION ELEMENTS (Defined as Foundation piers – Chap 21)**	X			1705.2, 1704.5, Chap. 21	**SIER**		
J. ☐	**SPRAYED FIRE-RESISTANT MATERIALS –** Special Inspections shall be performed after the rough installation of electrical, automatic sprinkler, mechanical and plumbing systems and suspended systems for ceilings, where applicable.				1705.13	**SIER**		
1. ☐	Verify structural member surface conditions	—	X		1705.13.2			
2. ☐	Verify application of materials per manufacturer's instructions	X	X		1705.13.3			
3. ☐	Verify thicknesses and density of applied materials	—	X		1705.13.4 1705.13.5			
4. ☐	Verify the bond strength of applied materials	—	X		1705.13.6			
5. ☐	Verify Condition of finished application.				1705.13			
K. ☐	**MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS**			AWCI 12-B	1705.14	**SIER**		
1. ☐	Verify structural elements/deck surface conditions	—	X					
2. ☐	Verify application of materials per manufacturer's instructions	X	X					
L. ☐	**EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)**				1705.15	**SIER**		
1. ☐	Installed per County approved construction documents	—	—					
2. ☐	**Water-resistive Barrier Coating complying with ASTM E 2570 installed over a sheathing substrate**							
M. ☐	**SMOKE CONTROL SYSTEMS**				1705.17	**SIER**		
1. ☐	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	—					
2. ☐	Please submit a detailed scope of services, including a protocol of inspections to comply with 1705.17							

SPECIAL INSPECTIONS SCHEDULE **Building Permit Number: BLD20____- _____**

REQUIRED VERIFICATION AND INSPECTION						Inspections By	Start Date of Inspection	Completion Date of Inspection
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N. ☐	**WOOD CONSTRUCTION**				1705.5	**SIER**		
1. ☐	**Verify fabrication of wood structural elements and assembly**				1704.2.5			
1a. ☐	Verify fabrication of wood structural element. **Specify element: _____**		X					
1b. ☐	Verify the assembly of structural elements		X					
1c. ☐	Verify fabrication of site-built assemblies.	X	X					
2. ☐	**High-Load Diaphragms designed in accordance with Table 2306.2.1(2)**				1705.5.1, 2306.2.1(2)	**SIER**		
2a. ☐	Verify grade and thickness of wood structural panel sheathing as shown on the approved building plans.		X					
2b. ☐	Verify the nominal size of framing members at adjoining panel edges, the nail or staple diameter and length, the number of fastener lines and the spacing between fasteners in each line and edge margins per approved building plans.		X					
3. ☐	**Metal-plate-connected wood trusses spanning 60ft or greater**				1705.5.2	**SIER**		
3a. ☐	Verify that temporary installation restraint/bracing is installed in accordance with the approved truss submittal package.		X					
3b. ☐	Verify that permanent installation of individual truss member restraint/bracing is installed in accordance with the approved truss submittal package.		X					
O. ☐	**SPECIAL CASES AS REQUIRED BY THE BUILDING OFFICIAL**					**SIER**		
1. ☐								
2. ☐								
3. ☐								
4. ☐								
5. ☐								

At the time of these inspection, all items inspected were in accordance with the County approved building plans and the Virginia Uniform Statewide Building Code; a copy of the required building permit was posted on the construction site. Additionally, the erosion control devices were properly installed and maintained; or the department of Public Works was notified within one business day of the erosion control deficiency in accordance with Policy: Third Party Inspection Certification Program.